

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica St. Louis

13715 Rider Trail North

Earth City, MO 63045

Tel: (314)298-8566

TestAmerica Job ID: 160-5231-1

Client Project/Site: Glen Isle, Radiological Analyses

For:

Posillico Dev Company at Harbor Isle LLC

1750 New Highway

Farmingdale, New York 11735

Attn: Ellis Koch

Rhonda Ridenhower

Authorized for release by:

2/19/2014 4:39:08 PM

Rhonda Ridenhower, Manager of Project Management

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Job ID: 160-5231-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Posillico Dev Company at Harbor Isle LLC

Project: Glen Isle, Radiological Analyses

Report Number: 160-5231-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 01/21/2014; the samples arrived in good condition, properly preserved. The temperature of the coolers at receipt was 20.4 C. Additional analysis were analyzed that were not listed on the COC per client request.

RADIUM 226 (0 DAY INGROWTH)

Samples FB004 (160-5231-1) and FB003 (160-5231-4) were analyzed for radium 226 (0 day ingrowth) in accordance with EPA 903. The samples were prepared on 02/06/2014 and analyzed on 02/11/2014.

The samples were analyzed with no ingrowth, as such, the sample results may be biased high.

No other difficulties were encountered during the Radium 226 analysis.

All other quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Case Narrative

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Job ID: 160-5231-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Samples FB004 (160-5231-1) and FB003 (160-5231-4) were analyzed for Radium-228 (GFPC) in accordance with EPA 904. The samples were prepared on 02/05/2014 and analyzed on 02/10/2014.

No difficulties were encountered during the Radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM (ALPHA SPECTROMETRY)-Solids

Samples LT-X-002-6-8 (160-5231-2), LT-C-013-6-8 (160-5231-3) and LT-C-016-8-10 (160-5231-5) were analyzed for Isotopic Thorium (Alpha Spectrometry) in accordance with DOE A01R_Th. The samples were pre-prepped on 01/21/2014, prepared on 01/23/2014 and analyzed on 01/28/2014.

No difficulties were encountered during the Isotopic Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM (ALPHA SPECTROMETRY)-Waters

Samples FB004 (160-5231-1) and FB003 (160-5231-4) were analyzed for Isotopic Thorium (Alpha Spectrometry) in accordance with DOE. The samples were prepared on 01/23/2014 and analyzed on 01/24/2014.

No difficulties were encountered during the Isotopic Thorium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM (ALPHA SPECTROMETRY)-Solids

Samples LT-X-002-6-8 (160-5231-2), LT-C-013-6-8 (160-5231-3) and LT-C-016-8-10 (160-5231-5) were analyzed for Isotopic Uranium (Alpha Spectrometry) in accordance with DOE. The samples were pre-prepped on 01/21/2014, prepared on 01/23/2014 and analyzed on 01/27/2014.

No difficulties were encountered during the Isotopic Uranium analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM (ALPHA SPECTROMETRY)-Waters

Samples FB004 (160-5231-1) and FB003 (160-5231-4) were analyzed for Isotopic Uranium (Alpha Spectrometry) in accordance with DOE. The samples were prepared on 01/23/2014 and analyzed on 01/24/2014.

No difficulties were encountered during the Isotopic Uranium analysis.

All quality control parameters were within the acceptance limits.

CESIUM-137 & OTHER GAMMA EMITTERS (GS)-Waters

Samples FB004 (160-5231-1) and FB003 (160-5231-4) were analyzed for Cesium-137 & Other Gamma Emitters (GS) in accordance with DOE. The samples were prepared and analyzed on 01/24/2014.

No difficulties were encountered during the gamma Cesium analysis.

All quality control parameters were within the acceptance limits.

RADIUM 226 (NO INGROWTH)- GAMMA SPEC-Solids

Samples LT-X-002-6-8 (160-5231-2), LT-C-013-6-8 (160-5231-3) and LT-C-016-8-10 (160-5231-5) were analyzed for Radium 226 (No ingrowth) in accordance with GA-01-R. The samples were pre-prepped on 01/21/2014, prepared on 01/24/2014 and analyzed on 01/30/2014.

Radium-226 is quantified using the 186 keV line and matrix interference correction for Uranium-235. Doing this has the potential to

Case Narrative

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

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Laboratory: TestAmerica St. Louis (Continued)

produce a bias in the result. Evaluation of the Radium-226 result in correlation with the Lead- and Bismuth-214 results, on an individual sample basis is recommended.

Radium-226 and actinium-228 by gamma spectroscopy were detected above the MDA in the method blank. The blank's matrix is clean sodium-sulfate that contains low levels of naturally occurring isotopes. In addition, all associated samples contain levels of actinium-228 greater than five (5) times the level detected in the blank. No usable energy lines were found in the blank for either isotope. The gamma spectroscopy software forces a calculated result; however, the lab does not consider this a reflection of contamination. The results are reported with this narrative. (160-5231-2 DU), (LCS 160-101094/2-A), (MB 160-101094/1-A), LT-C-013-6-8 (160-5231-3), LT-C-016-8-10 (160-5231-5), LT-X-002-6-8 (160-5231-2)

The reporting limit was not met for lead-210 by gamma spectroscopy. The detectors are lead caves that may falsely inflate the result/uncertainty. The data is reported with the MDC achieved. (160-5231-2 DU), LT-C-013-6-8 (160-5231-3), LT-C-016-8-10 (160-5231-5), LT-X-002-6-8 (160-5231-2).

Insufficient sample was provided to put sample LT-C-013-6-8 (160-5231-3) into marn soil geometry, as client requested. Sample was put into tuna can geometry instead. The reporting limit for bismuth-212 was not met. The activity is not supported by thorium-234 or other members of the decay chain. The data is reported with the MDC achieved. LT-C-013-6-8 (160-5231-3)

No other difficulties were encountered during the Gamma spec analysis.

All other quality control parameters were within the acceptance limits.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice)	Samplers Name (Printed)			Site/Project Identification		
Company	Frank Raciello			(New Tyle Waterfront Development)		
Address	P.O. #				State (Location of site):	NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other:
City					Regulatory Program:	
Phone	Fax				LAB USE ONLY	
ANALYSIS REQUEST (ENTER X BELOW TO INDICATE REQUEST)						
Sample Identification	Date	Time	Matrix	No. of Cont.	Sample Numbers	Project No:
LT-X-002-0-2	1/17/14	12:00	Soil	2	X X X X	
LT-X-002-2-4	1/17/14	12:55	Soil	2	X X X X	
LT-X-002-8-10	1/17/14	1:30	Soil	2	X X X X	
FB004	1/17/14	1:30	Liquid	10	X X X X X X X X	4180-53536-1
LT-X-002-6-8	1/17/14	1:40	Soil	1	X X X X	33536-5
LT-X-003-0-2	1/17/14	1:45	Soil	2	X X X X	
LT-X-003-4-6	1/17/14	1:50	Soil	2	X X X X	
LT-X-003-8-10	1/17/14	1:435	Soil	2	X X X X	
DUP004	1/17/14	1:435	Water	2	X X X X	
LT-C-017-0-8-115*	1/17/14	1:50	Soil	1	X X X X	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = NaOH						
6 = Other _____ 7 = Other _____						
* Other your sent to facility.						

Special Instructions

Released by	Company	Date / Time	Received by	Company
<i>HR</i>	<i>TMG</i>	<i>1/17/14 13:00</i>	<i>JBL</i>	<i>T-Amp</i>
Released by	Company	Date / Time	Received by	Company
<i>John J. Mr</i>	<i>TM</i>	<i>1/17/14 14:35</i>	<i>SS</i>	<i>JAS</i>
Released by	Company	Date / Time	Received by	Company
<i>John J. Mr</i>	<i>TM BUSA CO</i>	<i>1/18/14 10:00</i>	<i>Oil Clark</i>	<i>1-18-14 10:00</i>
Released by	Company	Date / Time	Received by	Company
<i>John J. Mr</i>				

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)
TAL-0016 (0400)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 2 of 3

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice)	Ellis Koch	Samplers Name (Printed)	Amanda Recalente
Company	R&R- Glen Isle Partners, LLC	P. O. #	
Address	6025-R R Plaza	Analysis Turnaround Time	Standard <input checked="" type="checkbox"/>
City	Wilmington, NC 15576	Rush Charges Authorized For:	2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>
Phone	516-983-7333	Date	09/14
Fax		Time	0915
		Matrix	Soil
		No. of Cont.	2

ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)				LAB USE ONLY			
Project No:				Job No:			
Sample Identification				Sample Numbers			
(12028) 2015				(12028) 2015			
LT-X-004-0-2	11/14	0915	Soil	1	X	X	X
LT-X-004-2-4	11/14	0920	Soil	2	X	X	X
LT-X-004-10-12	11/14	0925	Soil	1	X	X	X
LT-X-005-0-2	11/14	1005	Soil	1	X	X	X
LT-X-005-2-4	11/14	1010	Soil	1	X	X	X
LT-X-005-10-8	11/14	1015	Soil	1	X	X	X
LT-X-006-0-2	11/14	1100	Soil	1	X	X	X
LT-X-006-2-4	11/14	1115	Soil	1	X	X	X
LT-X-006-10-8	11/14	1120	Soil	1	X	X	X
LT-X-007-0-2	11/14	1130	Soil	1	X	X	X
Preservation Used:	6 = Other	7 = Other	Water:	Soil	X	X	X

Special Instructions

Reinquished by	1	Company	PMG	Date / Time	11/14 13:00	Received by	JCB	Company
Reinquished by	2	Company	THY	Date / Time	11/14 14:20	Received by	JCB	Company
Reinquished by	3	Company	TA BULLARD	Date / Time	11/14 17:00	Received by	Oil Clark	Company
Reinquished by	4	Company		Date / Time		Received by		Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578) TAL-0016 (0408)

2 3.8, 3.1, 9.2

Login Sample Receipt Checklist

Client: Posillico Dev Company at Harbor Isle LLC

Job Number: 160-5231-1

Login Number: 5231

List Source: TestAmerica St. Louis

List Number: 1

Creator: Clarke, Jill C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

%	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Method Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
GA-01-R	Cesium-137 & Other Gamma Emitters (GS)	DOE	TAL SL
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-5231-1	FB004	Water	01/16/14 13:30	01/21/14 11:20
160-5231-2	LT-X-002-6-8	Solid	01/16/14 14:00	01/21/14 11:20
160-5231-3	LT-C-013-6-8	Solid	01/15/14 12:25	01/21/14 11:20
160-5231-4	FB003	Water	01/15/14 13:15	01/21/14 11:20
160-5231-5	LT-C-016-8-10	Solid	01/16/14 09:15	01/21/14 11:20

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Client Sample ID: FB004

Lab Sample ID: 160-5231-1

Matrix: Water

Date Collected: 01/16/14 13:30

Date Received: 01/21/14 11:20

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0419	U	0.0852	0.0852	1.00	0.152	pCi/L	02/06/14 13:39	02/11/14 18:57	1
<i>Carrier</i>	%Yield	Qualifier	<i>Limits</i>					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					02/06/14 13:39	02/11/14 18:57	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-228	0.214	U	0.202	0.203	1.00	0.326	pCi/L	02/05/14 14:41	02/10/14 11:42	1
<i>Carrier</i>	%Yield	Qualifier	<i>Limits</i>					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					02/05/14 14:41	02/10/14 11:42	1
Y Carrier	87.1		40 - 110					02/05/14 14:41	02/10/14 11:42	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Thorium-228	0.0329	U	0.0795	0.0795	1.00	0.162	pCi/L	01/23/14 14:29	01/24/14 19:11	1
Thorium-230	0.147	U	0.126	0.127	1.00	0.156	pCi/L	01/23/14 14:29	01/24/14 19:11	1
Thorium-232	0.0314	U	0.0634	0.0635	1.00	0.124	pCi/L	01/23/14 14:29	01/24/14 19:11	1
<i>Tracer</i>	%Yield	Qualifier	<i>Limits</i>					Prepared	Analyzed	Dil Fac
Thorium-229	84.1		30 - 110					01/23/14 14:29	01/24/14 19:11	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Uranium-233/234	0.0134	U	0.0443	0.0444	1.00	0.111	pCi/L	01/23/14 14:29	01/24/14 19:13	1
Uranium-235/236	-0.00500	U	0.0100	0.0100	1.00	0.121	pCi/L	01/23/14 14:29	01/24/14 19:13	1
Uranium-238	0.0388	U	0.0610	0.0611	1.00	0.0974	pCi/L	01/23/14 14:29	01/24/14 19:13	1
<i>Tracer</i>	%Yield	Qualifier	<i>Limits</i>					Prepared	Analyzed	Dil Fac
Uranium-232	88.8		30 - 110					01/23/14 14:29	01/24/14 19:13	1

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Actinium-228	9.77	U	8.04	8.09	50.0	15.1	pCi/L	01/24/14 12:00	01/24/14 19:05	1
Cesium-137	1.33	U	2.39	2.40	20.0	4.02	pCi/L	01/24/14 12:00	01/24/14 19:05	1
Bismuth-212	4.45	U	26.6	26.6	50.0	46.5	pCi/L	01/24/14 12:00	01/24/14 19:05	1
Bismuth-214	-8.23	U	16.5	16.5	50.0	12.1	pCi/L	01/24/14 12:00	01/24/14 19:05	1
Lead-212	-0.323	U	4.50	4.50	50.0	7.29	pCi/L	01/24/14 12:00	01/24/14 19:05	1
Lead-214	0.857	U	6.68	6.68	50.0	9.98	pCi/L	01/24/14 12:00	01/24/14 19:05	1
Potassium-40	27.4	U	45.5	45.6	75.0	66.7	pCi/L	01/24/14 12:00	01/24/14 19:05	1
Protactinium-234m	197	U G	344	345	75.0	523	pCi/L	01/24/14 12:00	01/24/14 19:05	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Client Sample ID: FB004

Lab Sample ID: 160-5231-1

Date Collected: 01/16/14 13:30

Matrix: Water

Date Received: 01/21/14 11:20

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Protactinium-231	-44.1	UG	73.8	73.9	75.0	123	pCi/L	01/24/14 12:00	01/24/14 19:05	1

Client Sample ID: LT-X-002-6-8

Lab Sample ID: 160-5231-2

Date Collected: 01/16/14 14:00

Matrix: Solid

Date Received: 01/21/14 11:20

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-228	0.644		0.169	0.177	1.00	0.0818	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Thorium-230	0.671		0.170	0.179	1.00	0.0487	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Thorium-232	0.700		0.173	0.183	1.00	0.0484	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Tracer	%Yield	Qualifier	Limits				Prepared		Analyzed	Dil Fac
Thorium-229	84.0		30 - 110				01/23/14 14:23		01/28/14 19:28	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-233/234	0.612		0.170	0.177	1.00	0.0604	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Uranium-235/236	0.00905	U	0.0300	0.0300	1.00	0.0752	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Uranium-238	0.544		0.159	0.166	1.00	0.0529	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Tracer	%Yield	Qualifier	Limits				Prepared		Analyzed	Dil Fac
Uranium-232	79.2		30 - 110				01/23/14 14:23		01/27/14 21:12	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Actinium 228	0.490		0.0242	0.0556	0.100	0.0229	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Bismuth-212	0.535		0.0931	0.108	0.100	0.0826	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Bismuth-214	0.397		0.0181	0.0450	0.100	0.0139	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Lead-210	0.499		0.121	0.135	0.100	0.150	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Lead-212	0.495		0.0125	0.0652	0.100	0.0124	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Lead-214	0.446		0.0166	0.0492	0.100	0.0134	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Potassium-40	8.80		0.195	0.922	2.50	0.0773	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Protactinium-231	-0.148	U	0.116	0.117	1.00	0.190	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Radium-226	0.972		0.136	0.217	1.00	0.148	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Radium-228	0.490		0.0242	0.0556	1.00	0.0229	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Thorium-234	0.445		0.129	0.137	1.00	0.160	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Thallium-208	0.162		0.00911	0.0191	0.100	0.00721	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Uranium-235	0.0333		0.0236	0.0239	1.00	0.0311	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Uranium-238	0.445		0.129	0.137	1.00	0.160	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Protactinium-234m	0.170	U	0.545	0.546	10.0	0.933	pCi/g	01/24/14 13:12	01/30/14 15:26	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Client Sample ID: LT-C-013-6-8

Lab Sample ID: 160-5231-3

Matrix: Solid

Date Collected: 01/15/14 12:25

Date Received: 01/21/14 11:20

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-228	0.734		0.191	0.200	1.00	0.104	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Thorium-230	0.754		0.190	0.200	1.00	0.0761	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Thorium-232	0.810		0.196	0.208	1.00	0.0759	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	79.9		30 - 110					01/23/14 14:23	01/28/14 19:28	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-233/234	0.555		0.159	0.165	1.00	0.0340	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Uranium-235/236	0.0397	U	0.0491	0.0493	1.00	0.0642	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Uranium-238	0.656		0.172	0.181	1.00	0.0339	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	84.2		30 - 110					01/23/14 14:23	01/27/14 21:12	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Actinium 228	0.711		0.0599	0.0941	0.100	0.0577	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Bismuth-212	0.715		0.220	0.232	0.100	0.207	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Bismuth-214	0.613		0.0463	0.0787	0.100	0.0421	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Lead-210	0.555		0.333	0.339	0.100	0.539	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Lead-212	0.734		0.0310	0.0999	0.100	0.0297	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Lead-214	0.699		0.0386	0.0823	0.100	0.0389	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Potassium-40	8.68		0.391	0.970	2.50	0.221	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Protactinium-231	-0.299	U	0.354	0.356	1.00	0.583	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Radium-226	1.31		0.339	0.409	1.00	0.379	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Radium-228	0.711		0.0599	0.0941	1.00	0.0577	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Thorium-234	0.834		0.364	0.374	1.00	0.435	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Thallium-208	0.231		0.0212	0.0320	0.100	0.0182	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Uranium-235	0.0468	U	0.0643	0.0645	1.00	0.118	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Uranium-238	0.834		0.364	0.374	1.00	0.435	pCi/g	01/24/14 13:12	01/30/14 15:25	1
Protactinium-234m	0.908	U	1.35	1.35	10.0	2.23	pCi/g	01/24/14 13:12	01/30/14 15:25	1

Client Sample ID: FB003

Lab Sample ID: 160-5231-4

Matrix: Water

Date Collected: 01/15/14 13:15

Date Received: 01/21/14 11:20

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Radium-226	0.0330	U	0.0836	0.0837	1.00	0.153	pCi/L	02/06/14 13:39	02/11/14 18:58	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Client Sample ID: FB003

Lab Sample ID: 160-5231-4

Date Collected: 01/15/14 13:15

Matrix: Water

Date Received: 01/21/14 11:20

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110	02/06/14 13:39	02/11/14 18:58	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Radium-228	0.142	U	0.213	0.213	1.00	0.356	pCi/L	02/05/14 14:41	02/10/14 11:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					02/05/14 14:41	02/10/14 11:42	1
Y Carrier	88.8		40 - 110					02/05/14 14:41	02/10/14 11:42	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-228	0.495		0.223	0.227	1.00	0.184	pCi/L	01/23/14 14:29	01/24/14 19:11	1
Thorium-230	0.461		0.216	0.220	1.00	0.187	pCi/L	01/23/14 14:29	01/24/14 19:11	1
Thorium-232	0.356		0.193	0.196	1.00	0.188	pCi/L	01/23/14 14:29	01/24/14 19:11	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	81.9		30 - 110					01/23/14 14:29	01/24/14 19:11	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-233/234	0.0151	U	0.0657	0.0657	1.00	0.156	pCi/L	01/23/14 14:29	01/24/14 19:13	1
Uranium-235/236	-0.0307	U	0.0250	0.0252	1.00	0.185	pCi/L	01/23/14 14:29	01/24/14 19:13	1
Uranium-238	0.0396	U	0.0624	0.0625	1.00	0.0996	pCi/L	01/23/14 14:29	01/24/14 19:13	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	84.5		30 - 110					01/23/14 14:29	01/24/14 19:13	1

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Actinium-228	-7.74	U	10.1	10.1	50.0	16.7	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Cesium-137	-0.508	U	3.09	3.09	20.0	5.36	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Bismuth-212	-1.09	U G	39.0	39.0	50.0	68.1	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Bismuth-214	-7.07	U	19.7	19.7	50.0	11.8	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Lead-212	-2.67	U	7.73	7.74	50.0	7.63	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Lead-214	5.85	U	5.46	5.50	50.0	8.85	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Potassium-40	-74.2	U G	293	293	75.0	83.0	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Protactinium-234m	427	U G	341	343	75.0	505	pCi/L	01/24/14 12:00	01/24/14 19:06	1
Protactinium-231	33.7	U G	64.4	64.5	75.0	108	pCi/L	01/24/14 12:00	01/24/14 19:06	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Client Sample ID: LT-C-016-8-10

Lab Sample ID: 160-5231-5

Date Collected: 01/16/14 09:15

Matrix: Solid

Date Received: 01/21/14 11:20

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-228	1.26		0.247	0.268	1.00	0.0987	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Thorium-230	0.540		0.160	0.166	1.00	0.0537	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Thorium-232	0.885		0.205	0.218	1.00	0.0667	pCi/g	01/23/14 14:23	01/28/14 19:28	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	78.0		30 - 110					01/23/14 14:23	01/28/14 19:28	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-233/234	0.582		0.165	0.172	1.00	0.0656	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Uranium-235/236	0.0144	U	0.0287	0.0287	1.00	0.0431	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Uranium-238	0.702		0.180	0.189	1.00	0.0345	pCi/g	01/23/14 14:23	01/27/14 21:12	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	81.3		30 - 110					01/23/14 14:23	01/27/14 21:12	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Actinium 228	0.648		0.0244	0.0705	0.100	0.0289	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Bismuth-212	0.708		0.111	0.134	0.100	0.0982	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Bismuth-214	0.480		0.0205	0.0539	0.100	0.0152	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Lead-210	0.346		0.0920	0.101	0.100	0.131	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Lead-212	0.696		0.0139	0.0911	0.100	0.0108	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Lead-214	0.504		0.0166	0.0549	0.100	0.0153	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Potassium-40	10.7		0.226	1.12	2.50	0.0813	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Protactinium-231	-0.240	U	0.132	0.135	1.00	0.214	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Radium-226	1.17		0.145	0.251	1.00	0.162	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Radium-228	0.648		0.0244	0.0705	1.00	0.0289	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Thorium-234	0.495		0.121	0.132	1.00	0.161	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Thallium-208	0.215		0.0104	0.0246	0.100	0.00810	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Uranium-235	0.0395		0.0208	0.0211	1.00	0.0366	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Uranium-238	0.495		0.121	0.132	1.00	0.161	pCi/g	01/24/14 13:12	01/30/14 15:26	1
Protactinium-234m	0.939	U	0.644	0.651	10.0	1.04	pCi/g	01/24/14 13:12	01/30/14 15:26	1

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-103475/1-A

Matrix: Water

Analysis Batch: 104233

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103475

Analyte	MB MB		Count (2σ+/-)	Total (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	0.06645	U	0.0933	0.0935	1.00	0.158	pCi/L	02/06/14 13:39	02/11/14 18:57	1
Carrier										
Ba Carrier	92.0			40 - 110				02/06/14 13:39	02/11/14 18:57	1

Lab Sample ID: LCS 160-103475/2-A

Matrix: Water

Analysis Batch: 104233

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103475

Analyte	Spike		LCS Result	LCS Qual	Total		RL	MDC	Unit	%Rec.
	Added	Uncert.			Uncert. (2σ+/-)	%Rec.				
Radium-226	11.2		12.54		1.31	112	1.00	0.122	pCi/L	68 - 137
Carrier										
Ba Carrier	91.4			40 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-103312/1-A

Matrix: Water

Analysis Batch: 103897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103312

Analyte	MB MB		Count (2σ+/-)	Total (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.05795	U	0.160	0.160	1.00	0.300	pCi/L	02/05/14 14:41	02/10/14 11:42	1
Carrier										
Ba Carrier	104			40 - 110				02/05/14 14:41	02/10/14 11:42	1
Y Carrier	89.6			40 - 110				02/05/14 14:41	02/10/14 11:42	1

Lab Sample ID: LCS 160-103312/2-A

Matrix: Water

Analysis Batch: 103897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103312

Analyte	Spike		LCS Result	LCS Qual	Total		RL	MDC	Unit	%Rec.
	Added	Uncert.			Uncert. (2σ+/-)	%Rec.				
Radium-228	3.98		3.310		0.508	83	1.00	0.353	pCi/L	56 - 140
Carrier										
Ba Carrier	98.8			40 - 110						
Y Carrier	87.1			40 - 110						

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-100902/1-A

Matrix: Solid

Analysis Batch: 101781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100902

Analyte	MB MB		Uncert.	Total		RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier		(2σ+/-)	(2σ+/-)							
Thorium-228	-0.004958	U	0.0346	0.0346	1.00	0.0950	pCi/g	01/23/14 14:23	01/28/14 19:28	1		
Thorium-230	0.06449		0.0544	0.0546	1.00	0.0502	pCi/g	01/23/14 14:23	01/28/14 19:28	1		
Thorium-232	-0.006177	U	0.00713	0.00715	1.00	0.0625	pCi/g	01/23/14 14:23	01/28/14 19:28	1		
Tracer	MB MB		%Yield	Qualifier	Limits		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-229	86.1			86.1	30 - 110					01/23/14 14:23	01/28/14 19:28	1

Lab Sample ID: LCS 160-100902/2-A

Matrix: Solid

Analysis Batch: 101783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100902

Analyte	Spike LCS LCS		Added	Result	Qual	Total		RL	MDC	Unit	%Rec.	Limits
	(2σ+/-)	Uncert.				%Rec.	Limits					
Thorium-230	24.5	24.10	24.5	24.10		2.48	1.00	0.111	pCi/g	98	81 - 118	
Tracer	LCS LCS		%Yield	Qualifier	Limits		RL	MDC	Unit	%Rec.	Limits	
Thorium-229	86.6			86.6	30 - 110							

Lab Sample ID: 160-5231-2 DU

Matrix: Solid

Analysis Batch: 101785

Client Sample ID: LT-X-002-6-8

Prep Type: Total/NA

Prep Batch: 100902

Analyte	Sample Sample		Result	DU Qual	Total		RL	MDC	Unit	RER	Limit
	Result	Qual			(2σ+/-)	Uncert.					
Thorium-228	0.644			0.6191	0.182	1.00	0.102	pCi/g		0.07	1
Thorium-230	0.671			0.5340	0.166	1.00	0.0826	pCi/g		0.40	1
Thorium-232	0.700			0.6768	0.188	1.00	0.0839	pCi/g		0.06	1
Tracer	DU DU		%Yield	Qualifier	Limits		RL	MDC	Unit	RER	Limit
Thorium-229	80.3			80.3	30 - 110						

Lab Sample ID: MB 160-100905/1-A

Matrix: Water

Analysis Batch: 101458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100905

Analyte	MB MB		Uncert.	Total		RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier		(2σ+/-)	(2σ+/-)							
Thorium-228	0.05742	U	0.113	0.113	1.00	0.210	pCi/L	01/23/14 14:29	01/24/14 19:11	1		
Thorium-230	0.1190	U	0.108	0.109	1.00	0.125	pCi/L	01/23/14 14:29	01/24/14 19:11	1		
Thorium-232	0.0000	U	0.00817	0.00817	1.00	0.0653	pCi/L	01/23/14 14:29	01/24/14 19:11	1		
Tracer	MB MB		%Yield	Qualifier	Limits		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-229	87.5			87.5	30 - 110					01/23/14 14:29	01/24/14 19:11	1

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-100905/2-A

Matrix: Water

Analysis Batch: 101463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100905

Analyte	Spike Added	LCS		Uncert. (2σ+/-)	Total		MDC	Unit	%Rec.	Limits
		Result	Qual		RL	1.00				
Thorium-230	8.64	10.81		1.37		1.00	0.203	pCi/L	125	81 - 125
Tracer										
Thorium-229	75.5			30 - 110						

Lab Sample ID: 160-5231-1 DU

Matrix: Water

Analysis Batch: 101383

Client Sample ID: FB004

Prep Type: Total/NA

Prep Batch: 100905

Analyte	Sample		DU		Total		Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	(2σ+/-)	1.00						
Thorium-228	0.0329	U	0.03038	U	0.0844	1.00	0.177	pCi/L	0.02	1		
Thorium-230	0.147	U	0.1397	U	0.124	1.00	0.150	pCi/L	0.03	1		
Thorium-232	0.0314	U	0.01008	U	0.0485	1.00	0.131	pCi/L	0.19	1		
Tracer												
Thorium-229	81.4		30 - 110									

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-100903/1-A

Matrix: Solid

Analysis Batch: 101507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100903

Analyte	MB		Count		Total		Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert.	(2σ+/-)	Uncert.	(2σ+/-)							
Uranium-233/234	0.006082	U	0.0201	0.0201	1.00	0.0506	pCi/g	01/23/14 14:23	01/27/14 21:12	1			
Uranium-235/236	0.0000	U	0.00454	0.00454	1.00	0.0363	pCi/g	01/23/14 14:23	01/27/14 21:12	1			
Uranium-238	0.01942	U	0.0275	0.0275	1.00	0.0291	pCi/g	01/23/14 14:23	01/27/14 21:12	1			
Tracer													
Uranium-232	96.4		30 - 110										

Lab Sample ID: LCS 160-100903/2-A

Matrix: Solid

Analysis Batch: 101508

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100903

Analyte	Spike		LCS		Total		Uncert. (2σ+/-)	RL	MDC	Unit	%Rec.	Limits
	Added	Result	Qual	Uncert.	(2σ+/-)	1.00						
Uranium-233/234	6.37	6.505		0.752	1.00	0.0466	pCi/g	102	84 - 120			
Uranium-238	6.51	6.392		0.741	1.00	0.0306	pCi/g	98	82 - 122			
Tracer												
Uranium-232	91.2		30 - 110									

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: 160-5231-2 DU

Matrix: Solid

Analysis Batch: 101510

Client Sample ID: LT-X-002-6-8

Prep Type: Total/NA

Prep Batch: 100903

Analyte	Sample	Sample	DU	DU	Total		RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Uranium-233/234	0.612		0.5983		0.172		1.00	0.0580	pCi/g	0.04	1
Uranium-235/236	0.00905	U	0.06682		0.0626		1.00	0.0632	pCi/g	0.62	1
Uranium-238	0.544		0.5770		0.168		1.00	0.0507	pCi/g	0.10	1
<i>Tracer</i>		<i>DU</i>	<i>DU</i>								
<i>Uranium-232</i>		<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
		81.3		30 - 110							

Lab Sample ID: MB 160-100906/1-A

Matrix: Water

Analysis Batch: 101425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100906

Analyte	MB	MB	Count	Total		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)							
Uranium-233/234	-0.006949	U	0.0496	0.0497		1.00	0.158	pCi/L	01/23/14 14:29	01/24/14 19:13	1
Uranium-235/236	-0.01557	U	0.0180	0.0180		1.00	0.157	pCi/L	01/23/14 14:29	01/24/14 19:13	1
Uranium-238	-0.01665	U	0.0166	0.0167		1.00	0.135	pCi/L	01/23/14 14:29	01/24/14 19:13	1
<i>Tracer</i>		<i>MB</i>	<i>MB</i>								
<i>Uranium-232</i>		<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
		85.7		30 - 110							

Lab Sample ID: LCS 160-100906/2-A

Matrix: Water

Analysis Batch: 101426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100906

Analyte	Spike	LCS	LCS	Total		RL	MDC	Unit	%Rec	Limits	%Rec
	Added	Result	Qual	Uncert. (2σ+/-)							
Uranium-233/234	12.7	12.49		1.49		1.00	0.198	pCi/L	98	84 - 120	
Uranium-238	13.0	14.04		1.63		1.00	0.159	pCi/L	108	83 - 121	
<i>Tracer</i>		<i>LCS</i>	<i>LCS</i>								
<i>Uranium-232</i>		<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
		85.2		30 - 110							

Lab Sample ID: 160-5231-1 DU

Matrix: Water

Analysis Batch: 101428

Client Sample ID: FB004

Prep Type: Total/NA

Prep Batch: 100906

Analyte	Sample	Sample	DU	DU	Total		RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Uranium-233/234	0.0134	U	-0.00137	U	0.0681		1.00	0.180	pCi/L	0.13	1
			7								
Uranium-235/236	-0.00500	U	0.01713	U	0.0567		1.00	0.142	pCi/L	0.33	1
Uranium-238	0.0388	U	0.002748	U	0.0674		1.00	0.174	pCi/L	0.28	1

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: 160-5231-1 DU

Matrix: Water

Analysis Batch: 101428

Client Sample ID: FB004

Prep Type: Total/NA

Prep Batch: 100906

Tracer	DU	DU	%Yield	Qualifier	Limits
Uranium-232	85.5				30 - 110

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-101083/1-A

Matrix: Water

Analysis Batch: 101477

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101083

Analyte	Result	MB	MB	Count		Total		Prepared	Analyzed	Dil Fac
				Uncert.	(2σ+/-)	Uncert.	(2σ+/-)			
Actinium-228	-3.403	U		14.7		14.7		50.0	18.6 pCi/L	01/24/14 12:00
Cesium-137	1.437	U		2.06		2.06		20.0	3.42 pCi/L	01/24/14 12:00
Bismuth-212	35.16	U G		31.5		31.7		50.0	50.8 pCi/L	01/24/14 12:00
Bismuth-214	3.208	U		1.86		1.89		50.0	12.3 pCi/L	01/24/14 12:00
Lead-212	1.725	U		5.80		5.81		50.0	8.22 pCi/L	01/24/14 12:00
Lead-214	-0.9988	U		8.86		8.86		50.0	10.5 pCi/L	01/24/14 12:00
Potassium-40	-7.064	U		33.3		33.3		75.0	67.8 pCi/L	01/24/14 12:00
Protactinium-234m	-266.0	U G		1120		1120		75.0	627 pCi/L	01/24/14 12:00
Protactinium-231	21.64	U G		35.0		35.1		75.0	115 pCi/L	01/24/14 12:00

Lab Sample ID: LCS 160-101083/2-A

Matrix: Water

Analysis Batch: 101080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101083

Analyte	Spike Added	LCS		Total		RL	MDC	Unit	%Rec.	Limits
		Result	Qual	Uncert.	(2σ+/-)					
Americium-241	137000	133500		15400			474	pCi/L	97	90 - 111
Cesium-137	50500	49090		4920		20.0	162	pCi/L	97	90 - 111
Cobalt-60	59500	56960		5630			119	pCi/L	96	89 - 110

Lab Sample ID: 160-5231-1 DU

Matrix: Water

Analysis Batch: 101148

Client Sample ID: FB004

Prep Type: Total/NA

Prep Batch: 101083

Analyte	Sample		DU		Total		RER	Limit
	Result	Qual	Result	Qual	Uncert.	(2σ+/-)		
Actinium-228	9.77	U	-3.633	U	14.8		50.0	18.3 pCi/L
Cesium-137	1.33	U	0.02053	U	2.36		20.0	4.11 pCi/L
Bismuth-212	4.45	U	9.396	U G	30.5		50.0	52.0 pCi/L
Bismuth-214	-8.23	U	4.895	U	8.86		50.0	12.0 pCi/L
Lead-212	-0.323	U	5.778	U	6.25		50.0	8.38 pCi/L
Lead-214	0.857	U	-0.1608	U	6.28		50.0	11.4 pCi/L
Potassium-40	27.4	U	-33.92	U G	54.3		75.0	76.1 pCi/L
Protactinium-234m	197	U G	-380.1	U G	2830		75.0	626 pCi/L
Protactinium-231	-44.1	U G	-16.77	U G	75.5		75.0	127 pCi/L

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-101094/1-A

Matrix: Solid

Analysis Batch: 102169

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101094

Analyte	MB	MB	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Uncert.	(2σ+/-)	Uncert.	(2σ+/-)	RL	MDC						
Actinium 228	0.01276		0.00705		0.00717	0.100	0.0117	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Bismuth-212	0.02727	U	0.0268		0.0269	0.100	0.0434	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Bismuth-214	0.002942	U	0.00692		0.00692	0.100	0.0101	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Lead-210	-0.01034	U	0.0505		0.0505	0.100	0.0800	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Lead-212	0.002053	U	0.00332		0.00333	0.100	0.00630	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Lead-214	-0.002545	U	0.00689		0.00690	0.100	0.00931	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Potassium-40	-0.04694	U	0.0564		0.0566	2.50	0.0703	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Protactinium-231	-0.01627	U	0.0576		0.0577	1.00	0.0971	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Radium-226	0.1602		0.0452		0.0532	1.00	0.0525	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Radium-228	0.01276		0.00705		0.00717	1.00	0.0117	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Thorium-234	0.03430	U	0.0450		0.0451	1.00	0.0689	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Thallium-208	-0.002247	U	0.00473		0.00474	0.100	0.00499	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Uranium-235	0.0005122	U	0.00103		0.00103	1.00	0.0174	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Uranium-238	0.03430	U	0.0450		0.0451	1.00	0.0689	pCi/g	01/24/14 13:12	01/30/14 15:25	1	
Protactinium-234m	0.1027	U	0.250		0.250	10.0	0.462	pCi/g	01/24/14 13:12	01/30/14 15:25	1	

Lab Sample ID: LCS 160-101094/2-A

Matrix: Solid

Analysis Batch: 101080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101094

Analyte	Spike	LCS	LCS	Result	Qual	Total	RL	MDC	Unit	%Rec	Limits
	Added	Result	Qual	(2σ+/-)	RL						
Americium-241	101	96.50		10.0		0.516	pCi/g	96	87 - 116		
Cesium-137	35.8	33.74		3.53	0.100	0.179	pCi/g	94	87 - 120		
Cobalt-60	42.3	39.17		3.95		0.141	pCi/g	93	87 - 115		

Lab Sample ID: 160-5231-2 DU

Matrix: Solid

Analysis Batch: 102174

Client Sample ID: LT-X-002-6-8

Prep Type: Total/NA

Prep Batch: 101094

Analyte	Sample	Sample	DU	DU	Result	Qual	Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	(2σ+/-)	RL						
Actinium 228	0.490		0.4772		0.0533	0.100	0.0213	pCi/g	0.12	1		
Bismuth-212	0.535		0.5792		0.112	0.100	0.0830	pCi/g	0.20	1		
Bismuth-214	0.397		0.3967		0.0436	0.100	0.0110	pCi/g	0	1		
Lead-210	0.499		0.3849		0.115	0.100	0.143	pCi/g	0.46	1		
Lead-212	0.495		0.5234		0.0688	0.100	0.0104	pCi/g	0.21	1		
Lead-214	0.446		0.4428		0.0487	0.100	0.0142	pCi/g	0.03	1		
Potassium-40	8.80		8.764		0.918	2.50	0.0731	pCi/g	0.02	1		
Protactinium-231	-0.148	U	-0.2472	U	0.122	1.00	0.191	pCi/g	0.42	1		
Radium-226	0.972		1.051		0.220	1.00	0.135	pCi/g	0.18	1		
Radium-228	0.490		0.4772		0.0533	1.00	0.0213	pCi/g	0.12	1		
Thorium-234	0.445		0.4315		0.0970	1.00	0.138	pCi/g	0.06	1		
Thallium-208	0.162		0.1526		0.0178	0.100	0.00657	pCi/g	0.25	1		
Uranium-235	0.0333		0.04212		0.0238	1.00	0.0325	pCi/g	0.18	1		
Uranium-238	0.445		0.4315		0.0970	1.00	0.138	pCi/g	0.06	1		
Protactinium-234	0.170	U	0.7874	U	0.765	10.0	0.822	pCi/g	0.47	1		
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TestAmerica St. Louis

QC Association Summary

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Rad

Leach Batch: 100360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-2	LT-X-002-6-8	Total/NA	Solid	Dry and Grind	
160-5231-2 DU	LT-X-002-6-8	Total/NA	Solid	Dry and Grind	
160-5231-3	LT-C-013-6-8	Total/NA	Solid	Dry and Grind	
160-5231-5	LT-C-016-8-10	Total/NA	Solid	Dry and Grind	

Prep Batch: 100902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-2	LT-X-002-6-8	Total/NA	Solid	ExtChrom	100360
160-5231-2 DU	LT-X-002-6-8	Total/NA	Solid	ExtChrom	100360
160-5231-3	LT-C-013-6-8	Total/NA	Solid	ExtChrom	100360
160-5231-5	LT-C-016-8-10	Total/NA	Solid	ExtChrom	100360
LCS 160-100902/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-100902/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 100903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-2	LT-X-002-6-8	Total/NA	Solid	ExtChrom	100360
160-5231-2 DU	LT-X-002-6-8	Total/NA	Solid	ExtChrom	100360
160-5231-3	LT-C-013-6-8	Total/NA	Solid	ExtChrom	100360
160-5231-5	LT-C-016-8-10	Total/NA	Solid	ExtChrom	100360
LCS 160-100903/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-100903/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 100905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-1	FB004	Total/NA	Water	ExtChrom	
160-5231-1 DU	FB004	Total/NA	Water	ExtChrom	
160-5231-4	FB003	Total/NA	Water	ExtChrom	
LCS 160-100905/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-100905/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 100906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-1	FB004	Total/NA	Water	ExtChrom	
160-5231-1 DU	FB004	Total/NA	Water	ExtChrom	
160-5231-4	FB003	Total/NA	Water	ExtChrom	
LCS 160-100906/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-100906/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 101083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-1	FB004	Total/NA	Water	Fill_Geo-0	
160-5231-1 DU	FB004	Total/NA	Water	Fill_Geo-0	
160-5231-4	FB003	Total/NA	Water	Fill_Geo-0	
LCS 160-101083/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
MB 160-101083/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	

Prep Batch: 101094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-2	LT-X-002-6-8	Total/NA	Solid	Fill_Geo-0	100360
160-5231-2 DU	LT-X-002-6-8	Total/NA	Solid	Fill_Geo-0	100360

TestAmerica St. Louis

QC Association Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Rad (Continued)

Prep Batch: 101094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-3	LT-C-013-6-8	Total/NA	Solid	Fill_Geo-0	100360
160-5231-5	LT-C-016-8-10	Total/NA	Solid	Fill_Geo-0	100360
LCS 160-101094/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-0	
MB 160-101094/1-A	Method Blank	Total/NA	Solid	Fill_Geo-0	

Prep Batch: 103312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-1	FB004	Total/NA	Water	PrecSep_0	
160-5231-4	FB003	Total/NA	Water	PrecSep_0	
LCS 160-103312/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-103312/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 103475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5231-1	FB004	Total/NA	Water	PrecSep_0	
160-5231-4	FB003	Total/NA	Water	PrecSep_0	
LCS 160-103475/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-103475/1-A	Method Blank	Total/NA	Water	PrecSep_0	

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Tracer/Carrier Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
160-5231-1	FB004	94.1	
160-5231-4	FB003	90.9	
LCS 160-103475/2-A	Lab Control Sample	91.4	
MB 160-103475/1-A	Method Blank	92.0	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
160-5231-1	FB004	102	87.1
160-5231-4	FB003	108	88.8
LCS 160-103312/2-A	Lab Control Sample	98.8	87.1
MB 160-103312/1-A	Method Blank	104	89.6

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Th-229 (30-110)	
160-5231-2	LT-X-002-6-8	84.0	
160-5231-2 DU	LT-X-002-6-8	80.3	
160-5231-3	LT-C-013-6-8	79.9	
160-5231-5	LT-C-016-8-10	78.0	
LCS 160-100902/2-A	Lab Control Sample	86.6	
MB 160-100902/1-A	Method Blank	86.1	

Tracer/Carrier Legend
Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Th-229 (30-110)	
160-5231-1	FB004	84.1	
160-5231-1 DU	FB004	81.4	
160-5231-4	FB003	81.9	
LCS 160-100905/2-A	Lab Control Sample	75.5	
MB 160-100905/1-A	Method Blank	87.5	

TestAmerica St. Louis

Tracer/Carrier Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5231-1

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Solid

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

U-232

Lab Sample ID	Client Sample ID	(30-110)
160-5231-2	LT-X-002-6-8	79.2
160-5231-2 DU	LT-X-002-6-8	81.3
160-5231-3	LT-C-013-6-8	84.2
160-5231-5	LT-C-016-8-10	81.3
LCS 160-100903/2-A	Lab Control Sample	91.2
MB 160-100903/1-A	Method Blank	96.4

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

U-232

Lab Sample ID	Client Sample ID	(30-110)
160-5231-1	FB004	88.8
160-5231-1 DU	FB004	85.5
160-5231-4	FB003	84.5
LCS 160-100906/2-A	Lab Control Sample	85.2
MB 160-100906/1-A	Method Blank	85.7

Tracer/Carrier Legend

U-232 = Uranium-232

TestAmerica St. Louis